Cooper ATKINS®

Accuracy to the Highest Degree

INDUSTRIAL CATALOG

HVAC / R • Facilities • OEM

Cooper-Atkins Corporation

Cooper-Atkins has built a solid reputation as a manufacturer and provider of quality temperature, time and humidity instruments. The inventor of the first bi-metal oven thermometer, David G. Cooper, founded The CooperThermometer Company in 1885. For over 128 years, Cooper-Atkins has been a leading manufacturer of indoor environment and innovative food safety solutions. We have a global reach and are a trusted resource for high-quality products and expert advice. The company continues to meet the needs of its customers by remaining focused on the education and promotion of important industry issues and by providing the highest level of service and customer satisfaction!

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Carol P. Wallace, President / CEO

Carol P. Wallace has been the President and CEO of Cooper-Atkins Corporation since 1994 and is recognized by the Women's Business Enterprise National Council (WBENC) for leading a successful and thriving women-owned corporation. The WBENC is the largest, third-party certifier of businesses owned, controlled and operated by women in the U.S.

Certified WBENC Women's Business Enterprise

"We will continue to provide our dedicated customers with affordable solutions for every temperature measurement challenge - from bi-metal pocket tests to hand-held thermocouple units to our high-tech wireless temperature monitoring systems. When industrial professionals are faced with temperature challenges they will continue to look to Cooper-Atkins to provide solutions tailored to the needs of their business." - ***Carol P. Wallace***

TravAlert™ In-transit Data Logging

NEW TravAlert™

TravAlert™ is most commonly used for monitoring storage temperatures during transportation and provides highly accurate data for use in the foodservice and industrial markets. It can also be used to monitor and record temperatures of stationary refrigeration units or warm holding cabinets. The self-powered Data Logger is a time and temperature, PC interfacing device that can record up to 2,048 temperatures (in intervals from 1 minute to 4 hours) and is splash, dirt and impact resistant.

The operator initiates a session in the TravAlert™ software, then sets upper and lower temperature limits and frequency of the readings. The Delay Start feature allows the user to program a job in their office and account for time it takes to get the data logger in place. When the session is complete, the data logger is connected to a PC with the reader cable and a unique session report is generated.

1. Program

2. Locate

3. Report

2300
TravAlert™ Data Logger Kit

- 9387 Data Logger (5)
- 9364 i-Button Reader Cable (2)
- 9365 USB Adapter (2)
- 9386 Software CD (2)
- 9378 Disposable 3" x 4" Pouches (100) (not shown)

SPECIFICATIONS
Temperature Range: -40° to 185°F (-40° to 85°C)
Accuracy: ±2°F (±1°C) from -22° to 176°F (-30° to 70°C)
Resolution: 1°F (0.5°C) increments
Recording Intervals: 1- 255 user-programmable intervals up to 2,048 readings
Tag: ABS plastic tag with stainless steel button
Water resistant
Re-programmable for multiple uses
Battery: Lithium
Warranty: 1 year
FEATURES
Unique user-defined session identity
Go / No-Go Icon for immediate visual (based on user-defined parameters)
All readings for session shown in graph and tabular format
Printable to PDF at destination
Quick session summary display
SYSTEM REQUIREMENTS
Windows XP, Vista, Windows 7
Universal Serial Bus (USB) port
512 MB of memory
500 MB of hard disk space
Compact Disk (CD) drive

NotifEye™ Cloud-based Wireless Monitoring

The NotifEye™ cloud-based temperature monitoring and notification system increases your operating efficiencies and monitors indoor air quality. It is a low-cost wireless solution that is self-installable and ready to use out-of-the-box. The system has a wireless range of 250-300 ft and offers unlimited sensor data storage. Data is accessible from anywhere via the internet.

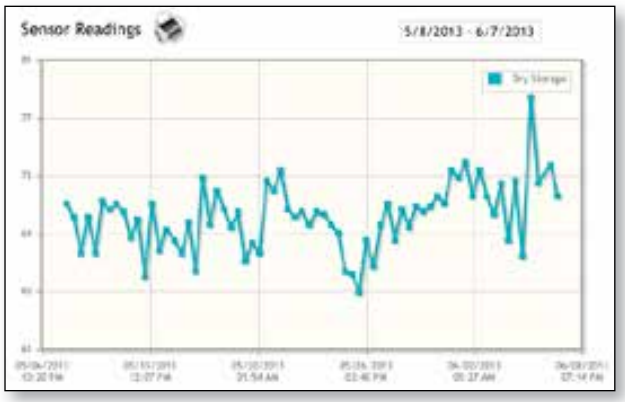
The hardware is available as two different kits, **USB Gateway** or **Ethernet Gateway**, both including 4 Temperature Sensors.

- **Self-installable**
- **Ready to Use Out-of-the-box**
- **Instant Alerts**

NotifEye Portal Screenshot

HOW IT WORKS

WIRELESS SENSORS MONITOR INVENTORY, DETECT INCIDENTS & SEND DATA VIA GATEWAYS TO THE NOTIFEYE™ SYSTEM

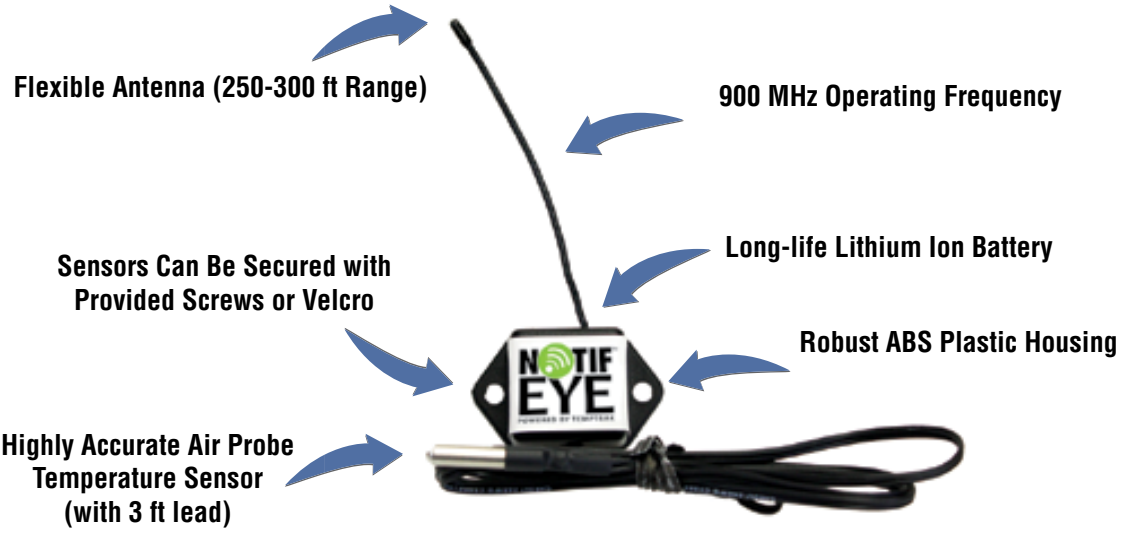


NotifEye History Screenshot

The NotifEye system allows users to choose a specific date range and have the sensor data within that range generated into a graph. The graphs are printable via the on-screen icon. *(Shown on left)*

NotifEye sensor data can also be exported for selected date ranges. A .csv file will be downloaded to the users default download directory and can be opened in any spreadsheet editing program like Microsoft Excel.

NotifEye™ Cloud-based Wireless Monitoring


Flexible Antenna (250-300 ft Range)
900 MHz Operating Frequency
Long-life Lithium Ion Battery
Sensors Can Be Secured with Provided Screws or Velcro
Robust ABS Plastic Housing
Highly Accurate Air Probe Temperature Sensor (with 3 ft lead)
NOTIF EYE

#15100 Temperature Sensor Specifications	#15120 Humidity Sensor Specifications
Temperature Range: -40° to 257°F (-40° to 125°C)	Relative Humidity Range: 0-100% RH
Accuracy: ±1.8°F (±1°C)	Accuracy: ±2% under normal conditions (50-90% RH)
Ambient Operating Range: 20° to 140°F (-7° to 60°C)	
Communication: RF 900 MHz, Antenna: 4" high gain whip antenna	
Sensor Range: 250-300 ft non-line-of-sight (actual range may vary depending on environment)	
Power: Replaceable 3.0 V Lithium Ion coin cell battery	
Battery Life: 2-3 years at 2-hour heartbeat (battery life determined by sensor reporting frequency and other variables)	
1-year warranty	

SENSOR FEATURES:

- Basic Sensor Configurations (Name Sensor, Set Heartbeat, Select Unit of Measurement)
- Advanced Sensor Configurations (Recovery Attempts, Inactivity Alerts, Sub Heartbeat Assessments)
- Sensor Configuration by Group
- Sensor Grouping by Gateway, Type or Status
- Unlimited Number of Networks, Sensors, Gateways and User Supported
- Sensor Mapping Tool (Visual Placement)
- Data Reports and Sensor History Storage
- Visual Charts and Exports

ALERT FEATURES:

- On-screen Alerts and Notifications (Single User or Multiple Recipients)
- Notifications via Email and SMS Text
- Permission-based Access Control and Reporting
- List of Recent Alerts for Individual Sensors

NotifEye sensors relay data every 2-hours (when set to the recommended 2-hour heartbeat). As soon as preset limits are exceeded an alert notification is sent.

#15501 Ethernet Gateway Minimum System Requirements	#15500 USB Gateway Minimum System Requirements
• Internet Access via Ethernet Port • PC / MAC Compatible	• An Available USB Port • Windows 8, 7 and Vista • 10 MB Free Disk Space • ASP.NET 3.5 • Computer Must be Left ON for Data Transfer to Occur ***Not Windows XP or MAC Compatible***

View the NotifEye™ Online System and Live Data!

Login to www.notifeyewireless.com – User Name: demo / Password: demo2013

DOCUTEMP®

NEW

Powered by TempTrak™

Maintenance / Facilities

Manufacturing

Casinos / Hotels / Resorts

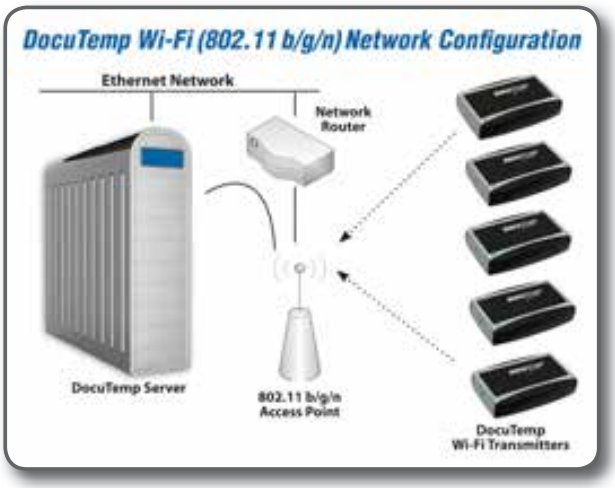
Food Processing

Factory / Refinery

The Wireless Monitoring Solution for Industry Professionals

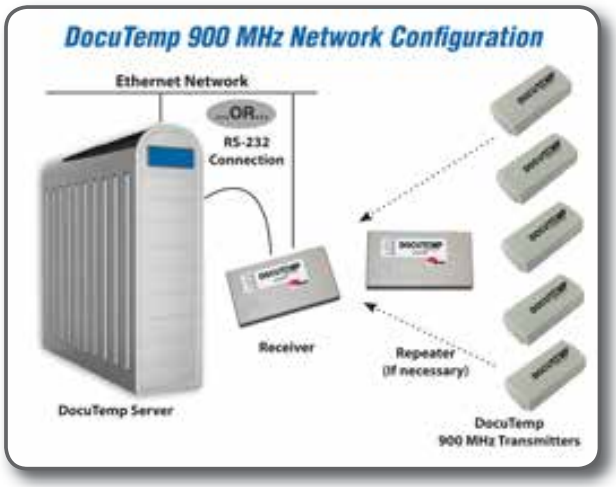
All Equipment. All Locations. One Platform.

Eliminate paper-driven logs for manual temperature management by converting to our DocuTemp™ system. Powered by TempTrak™, a leading wireless monitoring system, it collects and shares temperature data across multiple locations in the same town or across country. This system allows the monitoring of an unlimited number of points in an unlimited number of locations - all from a single software platform.



HOW IT WORKS

The transmitters wirelessly send data to the DocuTemp software which collects and records data 24/7. In the event the server is unavailable, data is temporarily stored / secured either in a buffer at the receiver (900 MHZ) or onboard the transmitter itself (Wi-Fi). DocuTemp™ hardware can co-exist with other wireless communications operating in the same, or nearby frequencies (900 MHz), or can utilize the facility's existing Wi-Fi network.



- **Battery-powered transmitters - no hard-wiring required**
- **Easily mounted in any location**
- **Monitors against user-defined parameters**
- **Provides alerts via pager, computer pop-up and email**
- **Date and time-stamped - cannot be altered**
- **Temperature data can be displayed in either °F or °C**
- **Add notes to transmitter readings**

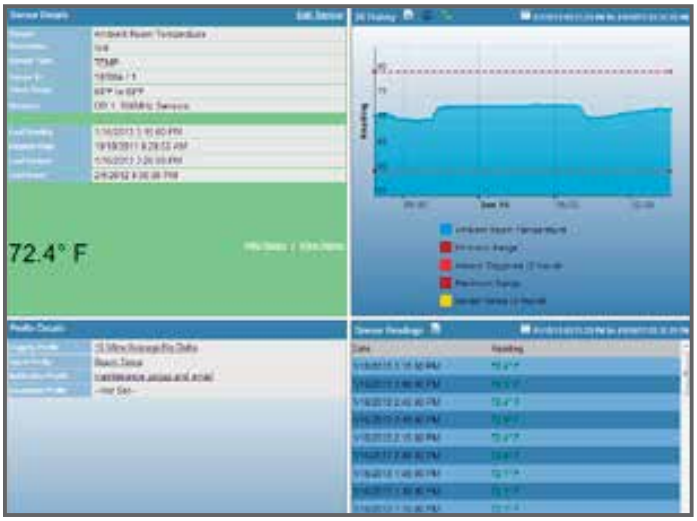
Wi Fi CERTIFIED

Microsoft Partner
Silver Independent Software Vendor (ISV)

Watch the Video!

REPORTING

DocuTemp software can create reports for any building or location from information collected via the system. Customized reports provide historical data, document corrective actions and identify issues before breakdown and spoilage occur.



Alarms & Alert Notifications

Alerts may be configured by time of day and day of week, tracking all corrective actions by time, user and action. When a DocuTemp transmitter identifies a monitoring point that has exceeded a preset range, it sends an alert notification via a variety of methods including:

- computer screen pop-ups
- emails
- pagers (digital, email and SNPP)
- cellphones (via email and text messages)
- contact switches(turn lights or sirens on / off, and can connect to security systems to transfer and alert)
- scrolling message boards

DocuTemp Notification: Grab-N-Go West (Cafe)
Alert Time: 9/12/2012 3:45:12 PM
Location: Grab-N-Go West (Cafe)
!! DOCUTEMP ALERT !! Grab-N-Go West in Cafe:
at 48.2 (Normal Range 33.0-41.0)
Close
Open Alert Window

EZLink

VIEW, ACKNOWLEDGE AND CLEAR TEMPTRAK ALARMS 24 / 7!

Wherever you go, **EZLink™** allows you to monitor your wireless system 24 / 7. View temperature sensor readings from your mobile device anywhere, anytime!

Features:

- View groups
- View sensors
- View 24-hour sensor reading history

Compatible With:

Current generation smartphones and tablets that have JavaScript and cookies enabled including iPad, iPhone, Android, Blackberry & Windows phone devices.

MFM300 Multi-Function Instrument

Lighten your load and increase your capabilities by using the MFM300!

It's your choice . . . you can use all of the following separate instruments and tools:

- Digital Thermometers
- Anemometers
- Sling Psychrometers
- Data Loggers
- Gauge Sets
- P-T Charts
- Psychrometric Charts

Or just use one . . . the MFM300!

The MFM300's Universal Jack system allows you to add the functions you need - when you need them.

- Three Thermistor Temperature Jacks (T1, T2, & T3) and Two Universal Input Jacks (U1 & U2)
- Instrument instantly recognizes all probes and accessories

The MFM300 Multi-Function Instrument is designed as a modular, expandable instrument, allowing the user to add accessories as needed. The MFM300 has the ability to measure, calculate and display the following:

- Temperature - 3 Zones - Delta T, Min / Max and Average
- Pressure
- Superheat and Sub-cooling
- Relative Humidity & Dry-bulb Temperature
- Psychrometrics
- Airflow
- Data Logging (requires optional GL300)
- Upgradable (requires optional 9362 PC Connection Cable)

MFM300
Free Sales &Training CD

CLICK HERE

Click the link above to access our MFM page and request your FREE Sales and Training CD ROM (Included with every MFM300 and Kit).

SPECIFIACTIONS

Temperature
Range: -58° to 302°F (-50° to 150°C)
Accuracy: ±0.3°F (0.2°C) or ±0.5% of reading, whichever is greater
Resolution: 0.1°
Ambient Operating Conditions:
32° to 122°F (0° to 50°C), 10% to 90%RH non-condensing

Humidity
Range: 0% to 99%RH
Accuracy: ±2%RH
Resolution: 1%RH
Dry-Bulb Range: -40° to 185°F (-40° to 85°C)
Accuracy: ±0.5°F (0.3°C)
Resolution: 0.1°

Pressure
Range: 0 to 500 PSI using 5250 pressure probe
Range: 0 to 1000 PSI using 5200 pressure probe
Accuracy: ±1% Full-Scale

Air Flow
Velocity: 100 to 6,000 FPM (0.5 to 30 MPS)
Accuracy: ±3% of Reading, +0.5% FS at 77°F (25°C)
Resolution: 1 FPM (0.01 MPS)
Temperature Range: 32° to 150°F (0° to 65°C)
Accuracy: ±2°F (1°C)

Refrigerants
P / T Data for 15 refrigerants already installed:
R-11, R-12, R-22, R-123, R-134A, R-401A, R-401B, R-402A, R-402B, R-404A, R-408A, R-409A, R-410A, R-502, R-507

Power: Four AA, 1.5V Alkaline batteries included
Battery Life: 100 hours minimum
Auto Shut-Off: After 15 mins of non-use (can be disabled)

Warranty
Instrument: 2 year (Extended warranty is available)
Probes and Accessories: 1 year
NIST Traceable

CE RoHS

Accessories

9362
PC Connection Cable

GL300
Data Logging Kit:
Collect and view logged temperature data on the MFM300. Download to your PC via the PC Connection Cable (9362).

MFM300 Basic & HVAC / R Kits

MFM300 Basic Kit Includes:

- MFM300 Multi-Function Expandable Instrument
- 1075 General Purpose Puncture Probe
- 4011 Pipe Strap Probe
- Heavyduty carrying case with detachable shoulder strap

MFM300 Multi-Function Expandable Instrument

1075 General Purpose Puncture Probe

4011 Pipe Strap Probe

Use the MFM300 to measure, calculate, and display critical system parameters.

MFM300 Toolbox Program - FREE download

CLICK HERE

MFM KITS

MFM300-KIT1 Air Conditioning

- Assists in determining system efficiency
- Instantly displays psychrometrics
- Performs basic air balancing

Includes: MFM300 Multi-Function Expandable Instrument
- 1075 General Purpose Puncture Probe
- 4011 Pipe Strap Probe
- 5400 Thermo-Anemometer
- 5029 Humidity Probe
- Carrying Case With Detachable Strap

MFM300-KIT2 General Purpose HVAC / R

- Expands MFM300 capability to include humidity & psychrometric readings
- Instantaneously calculates superheat / sub-cooling as pressure and temperature change

Includes: MFM300 Multi-Function Expandable Instrument
- 1075 General Purpose Puncture Probe
- 4011 Pipe Strap Temperature Probe
- 5200 Pressure Probe (1000 Psi)
- 5029 Humidity Probe
- Carrying Case With Detachable Strap

MFM300-KIT3 Real-Time Superheat / Sub-Cooling

- Eliminates manual input of pressure readings
- Speed & accuracy improved greatly over traditional analog gauge sets
- Dynamic superheat / sub-cooling instantaneously displayed
- Compatible with all common refrigerants

Includes: MFM300 Multi-Function Expandable Instrument
- 1075 General Purpose Puncture Probe
- 4011 Pipe Strap Temperature Probe
- 5250 Pressure Probe (500 Psi)
- 5200 Pressure Probe (1000 Psi)
- Carrying Case With Detachable Strap

MFM300-KIT4 Deluxe

Maximize the capabilities of the MFM300!

Includes: MFM300 Multi-Function Expandable Instrument
- 1075 General Purpose Puncture Probe
- 4011 Pipe Strap Probe
- 5400 Thermo-Anemometer Probe
- 5250 Pressure Probe (500 Psi)
- 5200 Pressure Probe (1000 Psi)
- 5029 Humidity Probe
- Carrying Case With Detachable Strap

MFM300-KIT4 Deluxe

Thermistor Instruments & Provers

SH66A-E 3-Zone Temperature Instrument
For applications when multiple temperature measurements are needed, this is the instrument to use. Simultaneously measure suction and liquid line temperatures, as well as temperatures across condensing coils, evaporator coils and ambient temperatures. View temperature differential between zones 1 and 2 and review min / max temperatures from all three zones. Features include: a backlit display for dark environments; a sealed keypad which protects the instrument from spills and dust; and a battery eliminator jack.

SH66A:
- 1075 General Purpose Puncture Probe
- 2010 Air Probe
- 4011 Pipe Strap Probe

SH66A-E-NIST:
- 1075 General Purpose Puncture Probe
- 2010 Air Probe
- 4011 Pipe Strap Probe
- Certificate of Calibration Traceable to NIST

SRH77A-E 3-Zone Temperature / Humidity Instrument
When temperature and relative humidity measurements are critical, the SRH77A-E is the expert's choice. View temperature differential, %RH, and wet-bulb. You will find this to be an accurate and fast service tool. Features include: a backlit display for dark environments; sealed keypad which protects the instrument from spills and dust; and a battery eliminator jack. The bright blue, durable carrying case makes this tool easy to find when on location or in the back of a service truck.

SRH77A:
- 1075 General Purpose Puncture Probe
- 4011 Pipe Strap Probe
- 5028 Slim Humidity Probe

SRH77A-E-NIST:
- 1075 General Purpose Puncture Probe
- 4011 Pipe Strap Probe
- 5028 Slim Humidity Probe
- Certificate of Calibration Traceable to NIST

CERTIFICATE OF CALIBRATION & REPORT

Cooper-Atkins thermistor instruments are calibrated by means of temperature, electrical, and / or resistance standards traceable to the United States Department of Commerce National Institute of Standards and Technology (NIST). Used in HVAC/R applications where IAQ (Indoor Air Quality) and accuracy of measurements are critical to healthy environmental indoor conditions and product safety such as hospitals, labs, schools, refrigeration of products and energy consumption.

4005I
Cordless Pipe Clamp Temperature Instrument
Includes 2.5" (64 mm) Retractable General Purpose Puncture Probe. Measure temperature of pipes up to 1.375" (35 mm) diameter.
- Single-handed use
- Spring-loaded probe to ensure repeatability
- Auto shut-off after 5 minutes of non-use
- Mode button: min, max, and hold
- Nylon, belt-pouch (included)

Thermistor Instruments & Provers

	SH66A / SH66A-E-NIST	SRH77A / SRH77A-E-NIST	TM99A / TM99A-NIST	4005I
Temperature Range:	-40° to 300°F (-40° to 150°C)	-40° to 300°F (-40° to 150°C)	-40° to 302°F (-40° to 150°C)	-20° to 300°F (-29° to 149°C)
Accuracy:	±0.3°F (0.2°C) OR ±0.5% Rdg. whichever is greater	±0.3°F (0.2°C) OR ±0.5% Rdg. whichever is greater	±0.3°F (0.2°C) OR ±0.5% Rdg. whichever is greater	Clamp: ±3°F (2°C) from 14° to 212°F (-10° to 100°C), Probe: ±3°F (2°C)
Humidity Range:	-	10 to 95% RH	-	-
Humidity Accuracy:	-	±2% from 20 to 80% RH ±3% below 20% and above 80% RH	-	-
Resolution:	0.1°	0.1° 1% RH	0.1°	0.1°
Display - LCD:	2" x .875" (51 mm x 22 mm)	2" x .875" (51 mm x 22 mm)	.5" (13 mm)	.25"x .875" (6 mm x 22 mm)
Backlight:	Yes	Yes	Yes	No
Min / Max:	Yes	Yes	Yes	Yes
Hold:	No	No	Yes	Yes
Ambient Operating Range:	0° to 130°F (-18° to 54°C) Up to 90% RH non-condensing	0° to 130°F (-18° to 54°C) Up to 90% RH non-condensing	32° to 122°F (0° to 50°C)	0° to 120°F Up to 90% RH non-condensing
Case Material:	Polyetheylene	Polyetheylene	ABS	Plastic
Weight:	1 lb 5 oz (595 g)	1 lb 5 oz (595 g)	5 oz (142 g)	5 oz (142 g)
Power:	(1) 9V Alkaline	(1) 9V Alkaline	(2) AAA Alkaline	(1) 1.5V LR44
Auto Shut-off:	Yes (after 15 mins)	Yes (after 15 mins)	Yes (after 5 mins)	Yes (after 5 mins)
Battery Life:	90 hours	90 hours	1800 hours	90 hours
Regulatory Listings:	CE RoHS	CE RoHS	CE RoHS	
Warranty:	5-year inst. / 1-year probe	5-year inst. / 1-year probe	5-year inst. / 1-year probe	1-year

TM99A Series
Thermistor Temperature Instrument

For applications where only one temperature is needed. It features Min / Max Memory, Hold, Auto-shutoff and an LCD backlight for dark enviornments.

TM99A:
- 1075 General Purpose Puncture Probe
- 9339 Soft, Carrying / Storage Pouch

TM99A-NIST:
- 1075 General Purpose Puncture Probe
- 9339 Soft, Carrying / Storage Pouch
- Certificate of Calibration Traceable to NIST

TM99A-V:
- 1050 Blunt-tip veterinary probe
- 9339 Soft, Carrying / Storage Pouch

TM99A

9320-NIST / 9321-NIST
Prover Calibration Box

NEW

Test and validates the calibration accuracy of Cooper-Atkins Thermistor Instruments. The 9320 simulates four preset Fahrenheit temperatures of -10°F, 32°F, 72°F and 140°F. The 9321 simulates four preset Celsius temperatures of -25°C, 0°C, 20°C, and 60°C.
- 1-year warranty
- Certificate of Calibration Traceable to NIST

Thermistor Probes

All Thermistor Temperature Probes are interchangeable with all Cooper-Atkins Thermistor Instruments.

Needle Probes

	1013	1014	1030	1050	1052	1075	1078	6000
Description:	**Meat-Packing Puncture Probe**	**17" Puncture Probe**	**Screw-in Puncture Probe**	**Blunt-tip Veterinary Probe**	**Needle Probe**	**General Purpose Puncture Probe**	**7" Puncture Probe**	**18" Flexible Thermistor Probe**
Temperature Range:	-40° to 300°F (-40° to 149°C)	-40° to 300°F (-40° to 149°C)	-40° to 300°F (-40° to 149°C)	-40° to 300°F (-40° to 149°C)	-40° to 300°F (-40° to 149°C)	-40° to 300°F (-40° to 149°C)	-40° to 300°F (-40° to 149°C)	-25° to 200°F (-40° to 93°C)
Max Tip Temperature:	300°F (149°C)	300°F (149°C)	300°F (149°C)	300°F (149°C)	300°F (149°C)	300°F (149°C)	300°F (149°C)	200°F (93°C)
Max Cord Temperature:	200°F (93°C)	200°F (93°C)	400°F (204°C)	200°F (93°C)	200°F (93°C)	200°F (93°C)	200°F (93°C)	200°F (93°C)
Response Time (liquid):	6 seconds	100 seconds	20 seconds	6 seconds	4 seconds	6 seconds	6 seconds	50 seconds
Shaft Length:	3.75" (95 mm)	17" (430 mm)	2.5" (64 mm)	3.5" (89 mm)	2.9" (74 mm)	3.75" (95 mm)	7" (178 mm)	18" (457 mm)
Shaft Diameter:	0.140" (4 mm)	0.25" (6 mm)	0.165" (4 mm)	0.125" (3 mm)	0.041" (1 mm)	0.146" (3.6 mm)	0.140" (4 mm)	0.156" (4 mm)
Cord Length:	6' (1.8 m) polyurethane (uncoiled)	6' (1.8 m) polyurethane (uncoiled)	6' (1.8 m) teflon (straight)	6' (1.8 m) polyurethane (uncoiled)	6' (1.8 m) polyurethane (uncoiled)	6' (1.8 m) polyurethane (uncoiled)	6' (1.8 m) polyurethane (uncoiled)	12' (3.7 m) PVC (straight)
Warranty:	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year

1013
Meat-Packing Puncture Probe

1014
17" Puncture Probe with Heavy-Duty Cord

1030
Screw-in Probe with 1/8" NPT Fitting

1050
Blunt-Tip Veterinary Probe

1052
Needle Probe
(use with Pete's Plugs)

1075
General Purpose Puncture Probe

1078
7.25" Puncture Probe

Surface Probes

Air Probes

	3010	4005	4011	4040	7010	2007	2010	5005	5028
Description:	**Plastic Shaft Probe**	**Pipe Clamp Probe**	**Pipe Clamp Probe**	**Fast Response Surface Probe**	**Air / Surface Probe**	**Blunt Tip Veterinary Probe**	**Air Probe**	**Air Probe**	**Slim Temp / Humidity Probe**
Temperature Range:	-40° to 200°F (-40° to 93°C)	-14° to 212°F (-10° to 100°C)	-25° to 212°F (-32° to 100°C)	-40° to 300°F (-40° to 149°C)	-40° to 200°F (-40° to 93°C)	-40° to 300°F (-40° to 149°C)	-40° to 200°F (-40° to 93°C)	-40° to 300°F (-40° to 149°C)	0° to 150°F (-18° to 66°C)
Humidity Range:	-	-	-	-	-	-	-	-	10 to 95% RH
Max Tip Temperature:	200°F (93°C)	200°F (93°C)	212°F (100°C)	300°F (149°C)	200°F (93°C)	300°F (149°C)	200°F (93°C)	300°F (149°C)	150°F (66°C)
Max Cord Temperature:	200°F (93°C)	200°F (93°C)	200°F (93°C)	200°F (93°C)	200°F (93°C)	400°F (204°C)	200°F (93°C)	200°F (93°C)	200°F (93°C)
Response Time:	15 seconds	12 seconds	-	15 seconds	20 seconds	6 seconds	20 seconds	-	30 seconds
Shaft Length:	3" (76 mm)	-	-	3.5" (89 mm)	0.160" (4 mm)	4" (102 mm)	0.5" (13 mm)	4" (102 mm)	4.9" (125 mm)
Shaft Dia.	0.156" (4 mm)	-	-	0.310" (Tip) (8 mm)	0.5" (13 mm)	0.140" (4 mm)	0.160" (4 mm)	0.125" (3 mm)	0.25" (6 mm)
Cord Length:	6' (1.8 m) polyurethane (uncoiled)	10' (3 m) TPE (uncoiled)	12' (3.7 m) polyurethane (uncoiled)	6' (1.8 m) polyurethane (uncoiled)	6" (152 mm) PVC cord (straight)	10' (3.0 m) PTFE (straight)	12' (3.6 m) polyurethane (straight)	6' (1.8 m) polyurethane (uncoiled)	6' (1.8 m) PVC (unscoiled)
Warranty:	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year

4005
Pipe Clamp Probe
(Maximum 1-3/8" Ø Pipe Clamp Opening)

2007
Blunt Tip Veterinary Probe

2010
Air Probe

4011
Pipe Strap Probe
(Strap, 11" Long x 1/2" Wide Approx.)

4040
Fast Response Surface Probe

5028
Slim Temp / Humidity Probe

9010 10 ft. / **9015** 50 ft.
Extension Cable

HACCP Manager™ System

The HACCP Manager™ Kit records, stores, and analyzes temperature data and checklist data , eliminating the need for manual data collection. The HACCP Manager's intuitive programming requires minimal training and increases productivity. Both the firmware and software are automatically updated via the web to ensure your system is always current Incorporating our new HACCP Manager™ system into your preventative maintenance program will not only save you time and money, but will increase consumer confidence and ultimately improve the overall customer experience.

93710
HACCP Manager™ Kit
- 37100 Handheld
- 50209-K MicroNeedle Probe
- 9382 Battery Charger
- 9383 USB Cable
- 9384 Software CD-ROM
- 9385 Soft Carrying Pouch

PREPARE TO BE MANAGED!

Watch the Video!

SPECIFICATIONS

Handheld (37100)

Temperature Range: -99.9° to 999.9°F (-73.2° to 537.7°C)

Accuracy: ±1°F (±0.5°C) or ±0.2% of reading

Ambient Operating Range: 32° to 122°F (0° to 50°C)

Housing: Water resistant ABS Plastic with protective rubber boot

Probe: Accepts all type K thermocouple probes

NIST Traceable: Yes

Power: Rechargeable lithium ion battery (8 hrs typical)

Warranty: 5 year

CE RoHS

FEATURES

- Transfer data easily between Handheld & PC via USB cable
- Store up to 3000 temperatures and 300 menu items
- Assess temperature measurement as it stabilizes
- Identify failed results quickly via color-coded alerts
- Update software & firmware automatically via the web
- Create custom checklists storing up to 1500 records

BENEFITS

- Provides a systematic and more accurate approach to temperature taking
- Ensures compliance with HACCP workflow and increases employee accountability
- Saves time by eliminating manual data collecting
- Ensures food is safe and improves health inspection scores via selectable Corrective Actions
- Reduces training time due to intuitive menu and checklist interface

HANDHELD DISPLAYS

The Handheld's large display measures 2" x 1 1/2", making the data easy to read, navigate and select.

Date	Time	Device ID	Category	Question	Corrective Action	User	Question Type	Answer
7/16/2013	09:28:09	PKBOC307	Boiler Room Bucket	Repair or Replace (Y/N)		Employee #1	Yes No	No
7/16/2013	09:27:59	PKBOC307	Boiler Room Bucket	Is Trap Working Correctly?		Employee #1	Yes No	Yes
7/16/2013	09:27:52	PKBOC307	Boiler Room Bucket	Is Trap On?		Employee #1	Yes No	Yes
7/16/2013	09:27:43	PKBOC307	Boiler Room Bucket	Steam Trap Delta-T Temp		Employee #1	Numeric	40.0
7/16/2013	09:27:28	PKBOC307	Boiler Room Bucket	Steam Trap Outlet Temperature		Employee #1	Numeric	140.0
7/16/2013	09:27:14	PKBOC307	Boiler Room Bucket	Steam Trap Inlet Temperature		Employee #1	Numeric	180.0
7/16/2013	09:27:01	PKBOC307	Boiler Room Bucket	Is this a process trap?		Employee #1	Yes No	No
7/16/2013	09:26:48	PKBOC307	Boiler Room Bucket	System Pressure (PSI)		Employee #1	Numeric	300.0

HACCP Manager Checklist Screen

Dual Input Thermocouple Kits

The TD2000 is a dual-input, Type K thermocouple instrument designed to monitor two zones simultaneously. The TD2000 is ideal for monitoring in / out flow lines of cooling and heating units and displays Max temperature and Delta-T calculations. It includes a protective rubber boot and has a temperature range up to 2000°F. The TD2000-01 Kit includes two Bead Tip probes and a Needle probe (for internal measurement of liquids or solids). The TD2000-02 Kit includes two 54011-K Pipe Strap Surface probes and a soft carrying pouch.

	TD2000-01	TD2000-02
Temperature Range:	-58° to 2000°F (-50° to 1093°C)	-58° to 2000°F (-50° to 1093°C)
Accuracy:	± 4 F° (2 C°) from -58° to 32°F (-50° to 0°C) ±0.3% +2°F (1°C) from 32° to 2000°F (0°C to 1093°C)	± 4 F° (2 C°) from -58° to 32°F (-50° to 0°C) ±0.3% +2°F (1°C) from 32° to 2000°F (0°C to 1093°C)
Resolution:	1°	1°
Housing:	ABS	ABS
Hold:	Yes	Yes
Backlight:	No	No
Waterproof:	No	No
Power:	(1) 9V	(3) 1.5V AAA
Battery Life:	200 hours	200 hours
Auto Off:	10 min.	10 min.
Weight:	10.7 oz (303 g)	10.7 oz (303 g)
Regulatory Listings:	CE	CE
Warranty:	5-year	5-year

NEW

TD2000-01
Dual Input Thermocouple Kit
- TD2000 Thermocouple Instrument
- (2) 6030MK Bead Tip Probes
- 31901-K Needle Probe

NEW

TD2000-02
Dual Input Thermocouple Kit
- TD2000 Thermocouple Instrument
- (2) 54011-K Pipe Strap Surface Probes
- 14057 Soft Pouch

Thermocouple Instruments

The **EconoTemp™** series employs state-of-the-art technology in economy thermocouple instruments. Designed with a powerful microprocessor and a unique memory which stores calibration settings, it will never need recalibration. A rubber boot protects the ABS plastic housing delivering impact ratings not found in other economy models. Supplied with a 9368 Wall-mount bracket and lanyard.

	32311-K	32322-K
Temperature Range:	-40° to 500°F (-40° to 260°C)	-40° to 1000°F (-40° to 538°C)
Accuracy:	±2°F (±1°C)	±1°F (±0.5°C)
Resolution:	1°	1.0 / 0.1°
Housing:	ABS	ABS
Hold:	No	No
Backlight:	No	No
Waterproof:	No	No
Power:	(3) 1.5V AAA	(3) 1.5V AAA
Battery Life:	4500 hours	1500 hours
Auto Off:	10 min.	10 min.
Wall Mounting Bracket:	Yes	Yes
Weight:	6 oz (170 g)	6 oz (170 g)
Regulatory Listings:	CE NSF RoHS	CE RoHS
Warranty:	5-year	5-year

32311-K
EconoTemp™

32322-K
EconoTemp™ Plus
- High temperature range
- 10th degree resolution

Cooper-Atkins • Five Year Instrument Warranty • 5 Year

94020-K
EconoTemp™ Direct Connect Combo Pack
- 32311-K Thermocouple Instrument
- 50337-K Direct Connect DuraNeedle Probe
- Wall-mount bracket
- Response Time: 1 second

93230-K
EconoTemp™ Combo Pack
- 32311-K Thermocouple Instrument
- 50336-K DuraNeedle Probe
- Wall-mount bracket
- Response Time: 2 seconds

AquaTuff™ Thermocouple Instruments

AquaTuff™ Wrap&Stow™ Thermocouple Instruments have a unique memory chip that stores calibration settings. They are highly accurate, NIST traceable and most importantly, as the AquaTuff™ name implies, extremely durable and IPX7 waterproof rated for even greater reliability in harsh environments. Integral probe and cable storage enclosure designs are available where the probe is factory calibrated to the instrument. The AquaTuff™ 35100-K or 35200-K allow for maximum versatility since the instrument can be used with any Type K Thermocouple probes.

35100-K
AquaTuff™

35132
AquaTuff™ Wrap&Stow™
with DuraNeedle™ Probe

Cooper-Atkins • Five Year Instrument Warranty • 5 Year

35135
AquaTuff™ Wrap&Stow™
with Angled Surface Probe

35140
AquaTuff™ Wrap&Stow™
with MicroNeedle Probe

9319-NIST and 9321-NIST Provers
Test and validate the calibration accuracy of Type K Thermocouple Instruments.
The 9319 simulates three preset Fahrenheit temperatures of 32°F, 100°F, or 160°F.
The 9321 simulates four preset Celsius temperatures of -25·°C, 0°C, 20°C, or 60°C.

- 1 year warranty
- Certificate of Calibration Traceable to NIST

AquaTuff™ 351 Series

	35100-K	35132	35135	35140
Temperature Range:	-100° to 999°F (-73° to 537°C)	-100° to 500°F (-73° to 260°C)	-100° to 500°F (-73° to 260°C)	-100° to 500°F (-73° to 260°C)
Accuracy:	±0.5°F (±0.3°C)	±0.9°F (±0.5°C) [1] Total System	±0.5°F (±0.3°C) [4]	±0.9°F (±0.5°C) [1] Total System
Resolution:	0.1°	0.1°	0.1°	0.1°
Housing:	ABS	ABS	ABS	ABS
Hold:	No	No	No	No
Backlight:	No	No	No	No
Waterproof:	Yes	Yes	Yes	Yes
Power:	(2) 1.5V AAA	(2) 1.5V AAA	(2) 1.5V AAA	(2) 1.5V AAA
Battery Life:	1800 hours	1800 hours	1800 hours	1800 hours
Auto Off:	10 min.	10 min.	10 min.	10 min.
Wall Mounting Bracket:	Optional	Optional	Optional	Optional
Weight:	5 oz (142 g)	7 oz (199 g)	8 oz (227 g)	7 oz (199 g)
Regulatory Listings:	CE NSF RoHS	CE NSF RoHS	CE RoHS	CE NSF RoHS
Warranty:	5-year	5-year inst. / 1-year probe	5-year inst. / 1-year probe	5-year inst. / 1-year probe

NOTE:
Refer to page 9 for information on EconoTemp™ Series instruments.
All EconoTemp™ Series and AquaTuff™ Series units are NIST traceable.
[1] Total System Accuracy™ (probe and instrument) over entire range.
[2] Tenth degree from -40° to 495°F (-40° to 257°C); whole degree remainder of range.
[3] Tenth degree / whole degree resolution, selectable.
[4] Accuracy spec for instrument only. Surface probe temperature error for flat, clean, oiled surfaces with 1kg pressure are typically within +1.5°C and -3.5°C without thermostat cycling.

AquaTuff™ Thermocouple Instruments

35200-K
AquaTuff™

35232
AquaTuff™ Wrap&Stow™
with DuraNeedle™ Probe

35235
AquaTuff™ Wrap&Stow™
with Angled Surface Probe

35240
AquaTuff™ Wrap&Stow™
with MicroNeedle Probe

35340
AquaTuff™ Wrap&Stow™
ITS™* with MicroNeedle Probe

*ITS™ (Intelligent Temperature Stabilization) feature prevents temperature from being displayed until the final stabilized temperature is reached. Memory can store up to a250 readings.

AquaTuff™ Series Wrap&Stow™ Probes

DuraNeedle Probes are best used to measure insertion and immersion temperatures. They are quick and durable for dependable performance, and are included with the 35132 and 35232. To order replacement DuraNeedle Probes, use model number 55032.

MicroNeedle Probes are designed to provide the greatest response times with minimal impact on the product, and are included with the 35140 and 35240 and 35340. To order replacement MicroNeedle Probes, use model number 55040.

Surface Probes are designed for use on any flat surface. Probe self-adjusts to the surface, giving superior contact and is included with the 35135 and 35235. To order replacement Surface Probes, use model number 55035.

AquaTuff™ 352 / 353 Series

	35200-K	35232	35235	35240	35340
Temperature Range:	-100° to 999°F (-73° to 537°C)	-100° to 500°F (-73° to 260°C)	-100° to 500°F (-73° to 260°C)	-100° to 500°F (-73° to 260°C)	-100° to 500°F (-73° to 260°C)
Accuracy:	±0.5°F (±0.3°C)	±0.9°F (±0.5°C) [1] Total System	±0.5°F (±0.3°C) [4]	±0.9°F (±0.5°C) [1] Total System	±0.9°F (±0.5°C) [1] Total System
Resolution:	0.1° [3]	0.1° [3]	0.1° [3]	0.1° [3]	0.1° [3]
Housing:	ABS	ABS	ABS	ABS	ABS
Hold:	Yes	Yes	Yes	Yes	No
Backlight:	Yes	Yes	Yes	Yes	No
Waterproof:	Yes	Yes	Yes	Yes	Yes
Power:	(2) 1.5V AAA	(2) 1.5V AAA	(2) 1.5V AAA	(2) 1.5V AAA	(2) 1.5V AAA
Battery Life:	1800 hours	1800 hours	1800 hours	1800 hours	1800 hours
Auto Off:	10 min.	10 min.	10 min.	10 min.	10 min.
Wall Mounting Bracket:	Optional	Optional	Optional	Optional	Optional
Weight:	5 oz (142 g)	7 oz (199 g)	8 oz (227 g)	7 oz (199 g)	7 oz (199 g)
Regulatory Listings:	CE NSF RoHS	CE NSF RoHS	CE RoHS	CE NSF RoHS	CE RoHS
Warranty:	5-year	5-year inst. / 1-year probe	5-year inst. / 1-year probe	5-year inst. / 1-year probe	5-year inst. / 1-year probe

IPX7 Waterproof

All the **AquaTuff™** instruments are IPX7 waterproof rated and durable for harsh environments.

An IPX7 level reading means the instrument can be submerged in 1 meter of water for 30 minutes without water damage.

Type K Thermocouple Probes

Cooper-Atkins builds all of our probes in our Connecticut Headquarters facility, so you can rely on us to custom design and manufacture a probe for your specific needs. All Cooper-Atkins probes are manufactured in an ISO 9001-2008 facility in the United States.

Needle Probes

	31901-K	39035-K	49122-K	49135-K	50101-K	50143-K	50145-K	50207-K
Description:	**1/8" Needle Probe - (Petite Handle)**	**1/8" Needle Probe**	**Ultra-Fine Product Probe**	**1/8" Rugged Needle Probe**	**Frozen Product Needle Probe**	**Heavy-Duty Needle Probe**	**1/8" Rugged Needle Probe**	**MicroNeedle Chisel Tip Probe (Direct Connect)**
Temperature Range:	-40° to 400°F (-40° to 205°C)	-40° to 400°F (-40° to 205°C)	-100° to 500°F (-73° to 260°C)	-40° to 400°F (-40° to 205°C)	-40° to 400°F (-40° to 205°C)	-40° to 500°F (-40° to 260°C)	-40° to 500°F (-40° to 260°C)	-100° to 500°F (-73° to 260°C)
Max Tip Temperature:	400°F (205°C)	400°F (205°C)	500°F (260°C)	400°F (205°C)	400°F (205°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)
Max Cable Temperature:	400°F (205°C)	400°F (205°C)	221°F (105°C)	400°F (205°C)	400°F (205°C)	176°F (80°C)	176°F (80°C)	-
Response Time (liquid):	4 seconds	4 seconds	3 seconds	4 seconds	4 seconds	5 seconds	4 seconds	1 second
Shaft Length:	4" (102 mm)	4" (102 mm)	4" (102 mm)	4" (102 mm)	3" (76 mm)	4" (102 mm)	4" (102 mm)	3.75" (95 mm)
Cable Length Max Extended:	24" (610 mm) w/ Silicone® Jacket	36" (914 mm) w/ FEP Jacket	36" (914 mm) w/ PVC Jacket	36" (914 mm) w/ FEP Jacket	30" (762 mm) w/ Flexible Armored Cable	48" (1.2 m) w/ Polyurethane Jacket	48" (1.2 m) w/ Polyurethane Jacket	Direct Connect (no cable)
Weight:	1 oz (28 g)	1 oz (28 g)	1 oz (28 g)	4 oz (113 g)	1 lb (454 g)	5 oz (142 g)	4 oz (113 g)	.5 oz (14 g)
Warranty:	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year

50336-K
DuraNeedle Probe

50012-K
Angled Shaft Surface Bell Probe

Needle Probes

	50209-K	50210-K	50263-K	50334-K	50335-K	50336-K	50337-K	50360-K	50361-K
Description:	**MicroNeedle Probe**	**MicroNeedle Probe (Direct Connect)**	**60° Patty Probe**	**4" DuraNeedle Probe**	**4.5" Needle Probe**	**DuraNeedle Probe**	**DuraNeedle Probe (Direct Connect)**	**Oven Needle Probe**	**Meat Probe**
Temperature Range:	-100° to 500°F (-73° to 260°C)	-100° to 500°F (-73° to 260°C)	-100° to 500°F (-73° to 260°C)	-100° to 500°F (-73° to 260°C)	-40° to 500°F (-40° to 260°C)	-40° to 500°F (-40° to 260°C)	-100° to 500°F (-73° to 260°C)	-40° to 500°F (-40° to 260°C)	-40° to 400°F (-40° to 205°C)
Max Tip Temperature:	500°F (260°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)	400°F (205°C)
Max Cable Temperature:	176°F (80°C)	-	176°F (80°C)	400°F (205°C)	176°F (80°C)	176°F (80°C)	-	600°F (316°C)	400°F (205°C)
Response Time (liquid):	1 second	1 second	1 second	1 second	4 seconds	2 seconds	1 second	2 seconds	4 seconds
Shaft Length:	3.5" (89 mm)	3.75" (95 mm)	8" (203 mm)	4" (102 mm)	4.5" (114 mm)	6" (153 mm)	4" (102 mm)	5.5" (140 mm)	3.875" (98 mm)
Cable Length Max Extended:	48" (1.2 m) w/ Polyurethane Jacket	Direct Connect (no cable)	48" (1.2 m) w/ Polyurethane Jacket	34" (864 mm) w/ Fluoroelastomer Jacket	48" (1.2 m) w/ Polyurethane Jacket	48" (1.2 m) w/ Polyurethane Jacket	Direct Connect (no cable)	35" (889 m) w/ Stainless Steel Overbraid	10' (3 m) w/ Armor
Weight:	2 oz (57 g)	.5 oz (14 g)	3 oz (85 g)	2 oz (57 g)	2 oz (57 g)	2 oz (57 g)	.5 oz (14 g)	1 oz (28 g)	6 oz (170 g)
Warranty:	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year

4005MK
Pipe Clamp Probe

High Temperature Probes — Pipe Probes — Fry Vat Probes

	49126-K	49127-K	49140-K	50426-K	50427-K	4005MK	54011-K	50200-K	50208-K
Description:	**Reduced Tip Puncture Probe**	**Reduced Tip Probe (Direct Connect)**	**High Temperature Probe**	**4" Reduced Tip Probe**	**12" Reduced Tip Probe**	**Pipe Clamp Surface Probe**	**Pipe Strap Surface Probe**	**High Temperature Probe**	**Fry Vat Insertion Probe**
Temperature Range:	32° to 932°F (0° to 500°C)	32° to 932°F (0° to 500°C)	32° to 2012°F (0° to 1100°C)	32° to 932°F (0° to 500°C)	32° to 932°F (0° to 500°C)	-20° to 300°F (-29° to 149°C)	-25° to 300°F (-32° to 149°C)	-40° to 400°F (-40° to 205°C)	-40° to 400°F (-40° to 205°C)
Max Tip Temperature:	932°F (500°C)	932°F (500°C)	2012°F (1100°C)	932°F (500°C)	932°F (500°C)	300°F (149°C)	300°F (149°C)	400°F (205°C)	400°F (205°C)
Max Cable Temperature:	400°F (205°C)	-	400°F (205°C)	176°F (80°C)	176°F (80°C)	220°F (104°C)	220°F (104°C)	400°F (205°C)	400°F (205°C)
Response Time:	1 second liquid	1 second liquid	2 seconds liquid	1 second liquid	1 second liquid	2 seconds on pipe	Varies on pipe	12 seconds liquid	8 seconds liquid
Shaft Length:	4" (102 mm)	4" (102 mm)	24" (610 mm)	4" (102 mm)	12" (305 mm)	-	-	8" (203 mm)	7.3" (185 mm)
Cable Length Max Extended:	36" (914 mm) w/ FEP Jacket	Direct Connect (no cable)	36" (914 mm) w/ Flexible Armor	48" (1.2 m) w/ Polyurethane Jacket	48" (1.2 m) Polyurethane Jacket	10' (3 m) w/ Polyurethane Jacket	10' (3 m) w/ Polyurethane Jacket	36" (914 mm) w/ FEP Jacket	30" (762 mm) w/ Flexible Armor
Weight:	4 oz (113 g)	.5 oz (14 g)	6 oz (170 g)	5 oz (142 g)	5 oz (142 g)	5 oz (142 g)	2 oz (57 g)	2 oz (57 g)	3 oz (85 g)
Warranty:	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year

54011-K
Pipe Strap Probe

Type K Thermocouple Probes

Air Probes

	31903-K	31905-K	39032-K	49138-K	50302-K	50305-K	50306-K	50332-K	50338-K
Description:	**Hand-held Air Probe**	**Bare Tip Air Probe**	**Hand-Held Air Probe**	**Bare Tip Air Probe**	**Industrial Air Probe**	**Freezer / Cooler Probe**	**Oven / Freezer Probe**	**Hand-Held Air Probe**	**Industrial Air Probe**
Temperature Range:	-40° to 400°F (-40° to 205°C)	-40° to 400°F (-40° to 205°C)	-328° to 400°F (-200° to 205°C)	32° to 896°F (0° to 480°C)	32° to 896°F (0° to 480°C)	-40° to 400°F (-40°to 205°C)	-100° to 600°F (-73° to 316°C)	-100° to 500°F (-73° to 260°C)	32° to 896°F (0° to 480°C)
Max Tip Temperature:	400°F (205°C)	400°F (205°C)	400°F (205°C)	896°F (480°C)	896°F (480°C)	400°F (205°C)	600°F (316°C)	500°F (260°C)	896°F (480°C)
Max Cable Temperature:	400°F (205°C)	400°F (205°C)	400°F (205°C)	896°F (480°C)	896°F (480°C)	176°F (80°C)	600°F (316°C)	176°F (80°C)	896°F (480°C)
Response Time :	9 seconds in 5 m / sec. air	1 sec. liquid & 3 sec. 5 m / sec. air	11 seconds in 5 m / sec. air steam	1 second liquid 9 sec. 5 m / sec. air	1 second liquid 10 sec. 5 m / second air	25 seconds air	1 second liquid 10 sec. 5 m / second air	10 seconds in 5 m / sec. air	1 second liquid 9 seconds in 5m / sec. air
Shaft Length:	4" (102 mm)	-	4" (102 mm)	-	2.125" (54 mm)	-	2.125" (54 mm)	4" (102 mm)	-
Cable Length Max Extended:	24" (610 mm) w/ Silicone® Jacket	24" (610 mm) w/ Silicone® Jacket	36" (914 mm) w/ FEP Cable	48" (1.2 m) w / Fiberglass Jacket	46.5" (1.2 m) w/ Fiberglass Jacket	24" (610 mm) w/ FEP Jacket	43" (1.1 m) w/ Stainless Steel Overbraid	48" (1.2 m) w/ Polyurethane Jacket	48" (1.2 m) w / Fiberglass Jacket
Weight:	1 oz (28 g)	1 oz (28 g)	1 oz (28 g)	1 oz (28 g)	1 oz (28 g)	3 oz (85 g)	1 oz (28 g)	2 oz (57 g)	1 oz (28 g)
Warranty:	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year

50306-K
Air Probe for oven or cooler / freezer with clip

Surface Probes

	31907-K	50001-K	50008-K	50010-K	50012-K	50014-K	50069-K	50316-K	50318-K	50319-K	50405-K
Description:	**Surface Probe - petite handle**	**Right Angle Bell Surface Probe**	**Silkscreen Probe**	**Tape Surface Probe**	**120° Angled Shaft Surface Bell Probe**	**Weighted Griddle Surface Probe**	**Moving Surface Bow Probe**	**1/8" Surface / Immersion Probe - flat tip**	**Ceramic Tip Surface Probe**	**90° Ceramic Tip Surface Probe**	**Blunt Tip Probe**
Temperature Range:	-40° to 400°F (-40° to 205°C)	-40° to 400°F (-40° to 205°C)	-40° to 400°F (-40° to 205°C)	-40° to 400°F (-40° to 205°C)	-40° to 500°F (-40° to 260°C)	-40° to 500°F (-40° to 260°C)	-40° to 500°F (-40° to 260°C)	-100° to 500°F (-73° to 260°C)	-40° to 1202°F (-40° to 650°C)	-40° to 1202°F (-40° to 650°C)	-100° to 500°F (-73° to 260°C)
Max Tip Temperature:	400°F (205°C)	400°F (205°C)	400°F (205°C)	400°F (205°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)	500°F (260°C)	1202°F (650°C)	1202°F (650°C)	500°F (260°C)
Max Cable Temperature:	400°F (205°C)	400°F (205°C)	400°F (205°C)	400°F (205°C)	176°F (80°C)	400°F (205°C)	221°F (105°C)	176°F (80°C)	176°F (80°C)	176°F (80°C)	-
Response Time:	5 seconds on (oiled surface)	7 seconds (oiled surface)	1 second (liquid)	9 seconds on (metal surface)	4 seconds (oiled surface)	2 seconds (oiled surface)	4 seconds (oiled surface)	6 seconds (metal surface) / 1 second (liquid)	1 second (oiled surface)	1 second (oiled surface)	6 seconds (oiled surface) 1 second (liquid)
Shaft Length:	4" (102 mm)	9" (229 mm)	-	-	4.5" (114 mm)	-	8" (203 mm)	4" (102 mm)	4" (102 mm)	5" (127 mm)	7.5" (190 mm)
Cable Length Max Extended:	24" (610 mm) w/ Silicone® Jacket	30" (762 mm) w / flexible armored cable	15" (381 mm) w/ Silicone® Jacket	36" (914 mm) w/ FEP Jacket	48" (1.2 m) w/ Polyurethane Jacket	30" (762 mm) w / flexible armored cable	36" (914 mm) w/ PVC® Jacket	48" (1.2 m) w/ Polyurethane Jacket	48" (1.2 m) w/ Polyurethane Jacket	48" (1.2 m) w/ Polyurethane Jacket	Direct Connect (no cable)
Weight:	1 oz (28 g)	6 oz (170 g)	3 oz (85 g)	1 oz (28 g)	5 oz (142 g)	2 lbs (907 g)	6 oz (170 g)	2 oz (57 g)	5 oz (142 g)	6 oz (170 g)	.5 oz (14 g)
Warranty:	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year

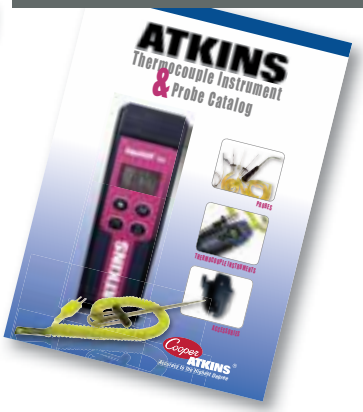
Miscellaneous Probes

	39138-K	49136-K	50121-K	50415-K	50701-K	52048-K
Description:	**Bare-Tip Probe**	**Bendable Tip Probe**	**Racing Tire Probe**	**Dishwasher Probe**	**Combo Probe**	**Product Simulator**
Temperature Range:	-328° to 400°F (-200° to 205°C)	32° to 1652°F (0° to 900°C)	-40° to 500°F (-40° to 260°C)	-67° to 221°F (-55° to 105°C)	-100° to 500°F (-73° to 260°C)	-40° to 180°F (-40° to 82°C)
Max Tip Temperature:	400°F (205°C)	1652°F (900°C)	500°F (260°C)	221°F (105°C)	500°F (260°C)	180°F (82°C)
Max Cable Temperature:	400°F (205°C)	221°F (105°C)	176°F (80°C)	221°F (105°C)	400°F (205°C)	-
Response Time :	1 sec. liquid & 7 sec. 5 m / sec. air	1 second liquid	1 second liquid	9 seconds in 5 m / sec. air	2 seconds liquid	Stabilization of Simulator - up to 2 hours
Shaft Length:	-	7" (178 mm)	0.1875" (5 mm)	-	35" (889 mm)	-
Cable Length Max Extended:	36" (914 mm) w/ FEP Jacket	36" (914 mm) w/ PVC® Jacket	48" (1.2 m) w/ Polyurethane Jacket	15' (4.6 m) w/ PVC Jacket	36" (914 mm) w/ Fluoroelastomer Jacket	6" (152 mm) Flexible Cable w/ FEP Jacket
Warranty:	1 year	1 year	1 year	1 year	1 year	1 year

NOTE: *Most probes are available in Type J and Type T configurations.*

52048-K
Product Simulator Probe

For a complete inventory of probes see our online catalog via the QR code below.



CLICK HERE

Digital Panel Thermometers

Cooper-Atkins' panel meters allow you to obtain accurate interior temperature readings remotely from outside the cabinet. They reduce the frequency of opening your cooler / freezer door and keep the cold air in and the hot air out. All are designed for retro-fit applications.

	SP160-0 SP160-01	SP120	PM120	PM180
Temperature Range:	-58° to 158°F (-50° to 70°C)	-58° to 158°F (-50° to 70°C)	-40° to 122°F (-40° to 50°C)	-25° to 180°F (-32° to 82°C)
Accuracy:	±1°F (0.5°C) from 32° to 122°F (0 to 50°C) ±2°F from -4° to 32°F (-20° to 50°C) ±3.6°F/2°C <-4°F (-20°C) and > 122°F (50°C)	±2°F (±1°C)	±1.8°F (±1°C) from -4° to 122°F (-20° to 50°C) ±3.6°F (±2C°) below -4°F (20°C)	±2°F (±1°C)
Resolution:	0.1°	0.1°	0.1°	0.1° / 1% RH
Ambient Operating Range:	0° to 120°F up to 90% non-condensing	0° to 120°F up to 90% non-condensing	0° to 120°F up to 90% non-condensing	0° to 120°F up to 90% non-condensing
Response Time:	10 second updates	30 seconds 10 second updates	30 seconds	5 second updates
LCD:	1.4" x 0.5" (36 mm x 13 mm)	1.875" x 0.625" (48 mm x 16 mm)	1.875" x 0.625" (48 mm x 16 mm)	1.875" x 0.625" (48 mm x 16 mm)
Lead Length:	48" (1.2 m)	10' (3 m)	39" (1 m)	39" (1 m)
Case Material:	ABS	ABS	Polycarbonate	Polycarbonate
Case Dimensions:	4.5" x 1.125" x .625" (114 mm x 29 mm x 16 mm)	2.75" x 2.75" x .75" (70 mm x 70 mm x 19 mm)	2.7" x 1.4" x 1.1" (69 mm x 36 mm x 28 mm)	2.75" x 1.5" x 1" (70 mm x 38 mm x 25 mm)
Power:	Solar w/ battery back-up (1) 1.5V AAA	Solar w/ battery back-up (1) 1.5V A76	(1) 1.5V AA	(1) 1.5V AA
Mounting:	Hangs	Hangs	Optional Mounting Flange (Model 9302)	Hangs of Stands
Weight:	3 oz (85 g)	2.5 oz (71 g)	2 oz (57 g)	5 oz (142 g)
Regulatory Listings:	CE RoHS	CE RoHS	CE RoHS	CE RoHS
Warranty:	1 year	1 year	1 year	1 year

PM180
Dual-Cool™ Panel Thermometer
- Min / Max alarm settings
- Hi / Lo temperature recall
- Interchangeable probes

PM180-01
- PM180 Panel Thermometer
- 2013 Air Probe
- 2113 Solid Simulator Probe

PM180-02
- PM180 Panel Thermometer
- (2) 2013 Air Probe

PM180-03
- PM180 Panel Thermometer
- (2) 2113 Solid Simulator Probe

SP Series Solar Powered Instruments
Meter operates using ambient light (natural, fluorescent and incandescent) and have a Lux rating above 100. When the ambient light is not strong enough to power the meter, the 1.5V battery automatically turns the unit on.

SP160-0
Solar Powered
Panel Meter
- 4' cord
- Black case

SP120
Solar Powered
Panel Meter
- 10' cord

SP160-1
Solar Powered
Panel Meter
- 4' cord
- White case

PM120
Mini Remote-Reading
Thermometer
For use when mounting space is limited.
- Min / Max feature
- 9302 Mounting flange available

NOTE: PM120 is not a solar powered instrument

Digital Panel Thermometers

	PMRH120	DM120 Series	DM450	DTT361
Temperature Range:	-12° to 140°F (-24° to 60°C)	-40° to 120°F (-40° to 48°C)	-40° to 450°F (-40° to 230°C)	32° to 392°F (0° to 200°C)
Accuracy:	±2°F (±1°C) ±5% RH from 30° to 75%RH / at 32° to 122°F (0° to 50°C)	±2°F (±1°C)	±2°F (±1°C) from -40° to 300°F ±2% of reading from 301° to 450°F	±9°F (±4°C) from 159° to 266°F (71° to 130°C) ±11°F (±5C°) from 267° to 320°F (131° to 160°C) ±14°F (±7C°) from 321° to 392°F (161° to 200°C)
Resolution:	0.1° / 1% RH	0.1°	0.1°	0.1°
Ambient Operating Range:	0° to 120°F up to 90% non-condensing	15° to 150°F up to 90% non-condensing	0° to 150°F up to 90% non-condensing	4° to 122°F
Response Time:	5 seconds	30 second updates	30 seconds 10 second updates	-
LCD:	1.875" x 0.625" (48 mm x 16 mm)	1.3" x 0.5" (33 mm x 13 mm)	1.3" x 0.5" (33 mm x 13 mm)	1.875" x 1.375" (48 mm x 35 mm)
Lead Length:	39" (1 m)	39" (1 m)	39" (1 m)	44" (1.1 m)
Case Material:	Polycarbonate	Stainless Steel	Stainless Steel	ABS Plastic
Case Dimensions:	2.75" x 1.5" x 1" (70 mm x 38 mm x 25 mm)	**DM120** 3.0" x 1.375" (76 mm x 27 mm) **DM120S** 3.47" x 1.1" (88 mm x 28 mm)	**DM450** 3.0" x 1.375" (76 mm x 27 mm)	4" x 2 1/2" x 1.375" (102 mm x 64 mm x 35 mm)
Power:	(1) 1.5V AA	(1) 1.5V #LR754	(1) 1.5V #LR754	(1) 1.5V AAA
Mounting:	Optional Front Flange	**DM120** Front Flange **DM120S** Back Flange	Front Flange	Wall-mount bracket with magnet
Weight:	2.5 oz (71 g)	**DM120** 2.5 oz (71 g) **DM120S** 3.5 oz (999 g)	3 oz (85 g)	4 oz (113 g)
Regulatory Listings:	CE RoHS	CE NSF RoHS	CE RoHS	CE RoHS
Warranty:	1 year	1 year	1 year	1 year

PMRH120
Mini Remote-Reading Thermometer / Hygrometer

- Min / Max feature
- 9302 Mounting flange available

DTT361
Cooking Thermo / Timer

- Wall-mount bracket with magnet
- Temperature / Time / Alarm

DM120 / DM450 Series

Front flange for flush mounting or back flange for surface mounting to cabinet and / or enclosure. The removable 2" (51 mm) diameter polycarbonate lens makes battery replacement easy.

DM120
Front Flange Back Connect Panel Thermometer

DM450
Front Flange Back Connect Panel Thermometer

Vapor Tension Panel Thermometers

Used in many HVAC/R applications, these units are the perfect choice for use in walk-in refrigerators, tanks, refrigerated display cases, holding and specialty cabinets, dairy cases, freezers, floral displays and much more. They are able to obtain interior temperature readings remotely from outside of the cabinet and can be retro-fitted.

- Nickel / tin-plated bulb and capillary
- Polycarbonate lens / bezel
- Stainless steel cases

6142-20
Front Flange
Back Connect Panel
Thermometer

6642-12
Remote Vapor Tension
Panel Thermometer

	6142-06	6142-13	6142-20	6142-58
Temperature Range:	40° to 240°F (10° to 115°C)	-40° to 120°F (-40 to 50°C)	-40° to 60°F (-40° to 15°C)	-40° to 60°F (-40° to 15°C)
Accuracy:	±2°F (±1°C) from 140° to 210°F (60 to 99°C)	±2°F (±1°) at 10° and 40°F (-12° and 4.5°C) ±5°F (±2.5°C) at 110°F (43°C)	±2°F (±1°C) at 10° to 40°F (-12° to 4.5°C)	±2°F (±1°C) at 10° to 40°F (-12° to 4.5°C)
Dial Dimension:	2" (51 mm)	2" (51 mm)	2" (51 mm)	2" (51 mm)
Capillary Length:	48" (1.2 m)	48" (1.2 m)	48" (1.2 m)	20' (6.1 m)
Flange:	Front	Front	Front	Front
Connection:	Back	Back	Back	Back
Mounting:	Flush	Flush	Flush	Flush
Weight:	5 oz (142 g)	5 oz (142 g)	5 oz (142 g)	7 oz (198 g)
Regulatory Listings:	NSF RoHS	NSF RoHS	NSF RoHS	RoHS
Warranty:	1 year	1 year	1 year	1 year

6742-19
U Bracket Back
Connect Panel
Thermometer

	6642-06	6642-12	6742-19	6812-01	6812-02
Temperature Range:	-40° to 60°F (-40° to 15°C)	40° to 240°F (10 to 115°C)	-40° to 60°F (-40° to 15°C)	-40° to 60°F (-40° to 15°C)	-40° to 120°F (-40° to 50°C)
Accuracy:	±2°F (±1°C) at 10° to 40°F (-12° and 4.5°C)	±2°F (±1°C) from 140° to 210°F (60° to 99°C)	±2°F (±1°C) at 10° to 40°F (-12° and 4.5°C)	±2°F (±1°C) at 10° to 40°F (-12° to 4.5°C)	±2°F (±1°C) at 10° to 40°F (-12° and 4.5°C) ±5°F (±2.5°C) at 110°F (43°C)
Dial Dimension:	2" (51 mm)	2" (51 mm)	2" (51 mm)	2" (51 mm)	2" (51 mm)
Capillary Length:	48" (1.2 m)	48" (1.2 m)	48" (1.2 m)	48" (1.2 m)	48" (1.2 m)
Flange:	Strap Hanger no flange	Strap Hanger no flange	U-Bracket no flange	Back	Back
Connection:	Bottom	Bottom	Back	Back	Back
Mounting:	-	-	-	Surface	Surface
Weight:	5 oz (142 g)	5 oz (142 g)	5.6 oz (158.9 g)	5 oz (142 g)	5 oz (142 g)
Regulatory Listings:	RoHS	RoHS	NSF RoHS	NSF RoHS	RoHS
Warranty:	1 year	1 year	1 year	1 year	1 year

6812-02
Back Flange Back
Connect Panel
Thermometer

7112-05
Front Flange Back
Connect Panel
Thermometer

	7112-01	7112-02	7112-05	7612-06
Temperature Range:	-40° to 60°F (-40° to 15°C)	-40° to 120°F (-40 to 50°C)	40° to 240°F (10° to 115°C)	-40° to 60°F (-40° to 15°C)
Accuracy:	±2°F (±1°C) at 10° to 40°F (-12° to 4.5°C)	±2°F (±1°C) at 10° and 40°F (-12° and 4.5°C) ±5°F (2.5°C) at 110° (-43°C)	±2°F (±1°C) from 140° to 210°F (60° to 99°C)	±2°F (±1°C) at 10° to 40°F (-12° and 4.5°C)
Dial Dimension:	2.5" (64 mm)	2.5" (64 mm)	2.5" (64 mm)	2.5" (64 mm)
Capillary Length	48" (1.2 m)	48" (1.2 m)	48" (1.2 m)	48" (1.2 m)
Flange:	Front	Front	Front	Strap Hanger
Connection:	Back	Back	Back	Bottom
Mounting:	Flush	Flush	Flush	-
Weight:	7 oz (198 g)	7 oz (198 g)	7 oz (198 g)	5.6 oz (159 g)
Regulatory Listings:	NSF RoHS	RoHS	RoHS	RoHS
Warranty:	1 year	1 year	1 year	1 year

Bi-Metal Thermometers

1246-02
Pocket Test Thermometer

CT180-51
Pocket Test Thermometer

2238-06
Stem-Test Thermometer

- Vessel clip included

2240-05
Soil Thermometer

2234
Compost
Thermometer

All 1" Pocket-tests are field adjustable and include a red, protective sheath with calibration wrench made with anti-microbial plastic*.

	1246 Series	CT Series	2234	2236-02	2238-06	2238-14	2240-05
Temperature Range:	1246-01: -40° to 180°F 1246-01C: -40° to 80°C 1246-02: 0° to 220°F 1246-02C: -20° to 100°C 1246-03: 50° to 550°F 1246-03C: 10° to 285°C	CT180-51: -40° to 180°F CT220-51: 0° to 220°F	50° to 190°F (10° to 90°C)	-40° to 180°F (-40° to 80°C)	0° to 220°F (-10° to 100°C)	50° to 550°F (10° to 288°C)	30° to 90°F
Accuracy:	1246-01: ±2°F 1246-01C: ±1°C 1246-02: ±2°F 1246-02C: ±1°C 1246-03: ±5°F 1246-03C: ±3°C	±2°F	±2°F (±1°C)	±2°F (±1°C)	±2°F (±1°C)	±5°F	±5°F
Dial Diameter:	1" (25 mm)	1" (25 mm)	2.125" (21 mm)	2" (50 mm)	2" (50 mm)	2" (50 mm)	2" (50 mm)
Lens Material:	Magnifying Polycarbonate	Magnifying Polycarbonate	Tempered Glass	Tempered Glass	Tempered Glass	Tempered Glass	Tempered Glass
Stem Length:	5" (127 mm)	5" (127 mm)	24" (610 mm)	5" (127 mm)	8" (203 mm)	8" (203 mm)	6" (152 mm)
Weight:	0.5 oz (14 g)	11 oz (312 g)	1.5 oz (43 g)	1.5 oz (43 g)	1.2 oz (35.4 g)	1.5 oz (43 g)	1.5 oz (43 g)
Regulatory Listings:	NSF	-	-	-	NSF	NSF	-
Warranty:	1 year	1 year	1 year	1 year	1 year	1 year	1 year

***Anti-microbial**
The anti-microbial additive in the ABS plastic sheath inhibits the growth of bacteria on the unit. It does not protect users or others against bacteria.

Developed for through-wall mounting, all units have a bi-metal coil movement and glass lens with a 0.25" (6.35 mm) diameter stainless steel stem. The stainless steel, back flange bezel has three, equally spaced mounting holes 0.150" (3.81 mm) diameter on a 2.9" (74 mm) diameter bolt circle.

	2225 Series	2245 Series	2255 Series
Temperature Range:	2225-02: 0° to 220°F 2225-03: -40° to 160°F 2225-05: 200° to 1000°F 2225-20: 200° to 1000°F (100° to 500°C)	2245-02: 0° to 220°F 2245-03: -40 to 160°C	2255-02: 0° to 220°F 2255-03: -40° to 160°F
Accuracy:	2225-02: ±2°F (±1°C) 2225-03: ±3°F 2225-05: ±20°F (±10°C) 2225-20: ±20°F (±10°C)	2245-02: ±2°F 2245-03: ±3°F	2255-02: ±2°F 2255-03: ±3°F
Dial Dimension:	2" (50 mm)	2" (50 mm)	2" (50 mm)
Outer Flange Diameter:	2225-02: 3.5" (89 mm) 2225-03: 3.5" (89 mm) 2225-05: 3.3" (84 mm) 2225-20: 3.3" (84 mm)	3.5" (89 mm)	3.5" (89 mm)
Stem Length:	4" (102 mm)	6" (152 mm)	9" (229 mm)
Weight:	2.5 oz (71 g)	3 oz (85 g)	3.8 oz (108 g)
Warranty:	1 year	1 year	1 year

2225-20
Pizza Oven Flange Mount Thermometer - Dual Scale

AFL Digital Pocket Test Thermometers

A digital pocket-test thermometer that is "**Accurate for Life**" and does **NOT** require any field adjustment. Eliminating field adjustment removes the risk of introducing inaccuracy into the instrument. Cooper-Atkins brings this industry leading advancement with the guarantee that our **Digital Pocket Tests** are always accurate. Look for the logo on Cooper-Atkins products and you'll know they are **Accurate for Life…GUARANTEED!!**

Cooper-Atkins offers a wide range of fast-response, Accurate for Life, Digital Pocket Tests with 0.1° resolution. Thermistor sensors are located in the probe tip for quick response time and accurate readings.

DFP450W
Digital Pocket Test with Temperature Alarm
- Min / Max & Hold Temperature
- IPX7 Waterproof rated
- Dishwasher safe

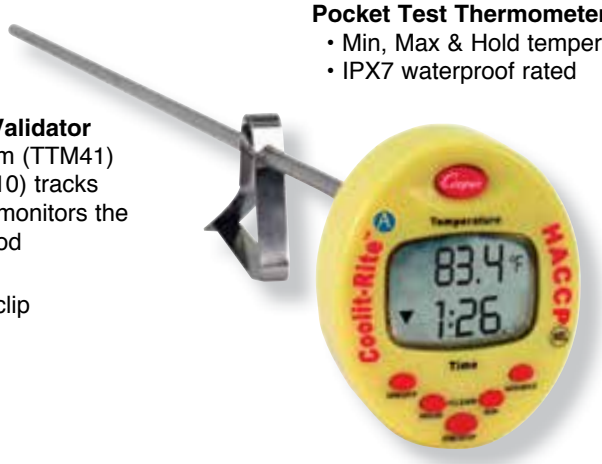
TTM59
Pocket Test Plus™
Replaces a wristwatch in the kitchen with an all-in-one pocket-test thermometer.
- 3-Station timer alarms
- Clock / Date
- Min / Max
- Dishwasher safe

DPP800W
MAX Digital Pocket Test Thermometer
- Large EZ-read LCD screen
- IPX7 Waterproof rated
- Dishwasher safe

Anti-microbial
The anti-microbial additive in the ABS plastic housing inhibits the growth of bacteria on the unit. It does not protect users or others against bacteria.

DPP400W
Pen-Style Digital Pocket Test Thermometer
- Min, Max & Hold temperature
- IPX7 waterproof rated

TTM41 & TTM41-10
CoolitRite™ Cooling Validator
Validator with 15" stem (TTM41) or 10" stem (TTM41-10) tracks elapsed time while it monitors the temperature of the food being cooled.
- Adjustable vessel clip
- Water-resistant



IPX7 Waterproof

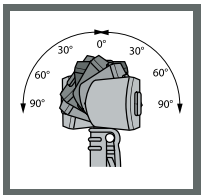
All the **Accurate for Life Pocket Test** instruments are IPX7 waterproof rated and durable for harsh environments.

An IPX7 level reading means the instrument can be submerged in 1 meter of water for 30 minutes without water damage.

Digital Pocket Test Thermometers

	DFP450W	DPP400W	DPP800W	DPS300-01	DT300	TTM41	TTM41-10	TTM59
Temperature Range:	-40° to 450°F (-40° to 232°C)	-40° to 392°F (-40° to 200°C)	-40° to 450°F (-40° to 232°C)	-40° to 302°F (-40° to 150°C)	-40° to 302°F (-40° to 150°C)	-4° to 302°F (-20° to 150°C)	-4° to 302°F (-20° to 150°C)	-4° to 350°F (-20° to 177°C)
Accuracy:	±2°F (±1°C)	±2°F (±1°C)	±1°F (±0.5°C)	±2°F (±1°C)	±2°F (±1°C)	±2°F (±1°C)	±2°F (±1°C)	±1°F (±0.5°C) over entire range
Resolution:	0.1°F	0.1°F	0.1°F	0.1°F	0.1°F	0.1°F	0.1°F	0.1°F
Display - LCD	.875" (22 mm)	.875" (22 mm)	1.5" (38 mm)	.50" (13 mm)	.875" (22 mm)	1.25" (32 mm)	1.25" (32 mm)	.43" (11 mm)
Stem Length:	4.75" (121 mm)	2.75" (70 mm)	4" (102 mm)	4.75" (121 mm)	4.625" (117 mm)	15" (381 mm)	10" (254 mm)	4.75" (121 mm)
Power:	(1) 1.5V #LR44	(1) 1.5V #LR44	(1) 1.5V #LR44	(1) 1.5V #LR44	(1) 1.5V #LR44	(1) 1.5V #LR44	(1) 1.5V #LR44	(1) 3V #CR2032
Auto Shut-off:	Yes (After 10 min)	Yes (After 10 min)	Yes (After 10 min)	Yes (After 10 min)	No	-	-	-
Weight:	.7 oz (20 g)	1 oz (28 g)	1 oz (28 g)	1 oz (28 g)	.5 oz (14 g)	2 oz (56 g) (with clip)	2 oz (56 g) (with clip)	1.8 oz (51 g)
Water Resistance Rating:	IPX7	IPX7	IPX7	-	-	Water Resistant	Water Resistant	IPX7
Regulatory Listings:	CE NSF RoHS	CE NSF RoHS	CE NSF RoHS	CE RoHS	CE RoHS	CE NSF RoHS	CE NSF RoHS	CE NSF
Warranty:	Lifetime	Lifetime	Lifetime	1 year	1 year	Lifetime	Lifetime	Lifetime

DPS300-01
Digital Pocket Test with 180° Swivel Head
- On / Off Buttons
- °F / °C Switchable
- Memory Feature
- Reduced Tip Design



Adjustable 180° Swivel Head for Easy Viewing From Any Angle

DT300
Oval Style Digital Pocket Test
- On / Off Buttons
- °F / °C Switchable

ValCup™

9325
ValCup™
Thermometer Validation Cup
- Quickly validate thermometer accuracy
- Commercial dishwater safe
- BPA-free acrylic
- 6.25" x 4" (159 mm x 102 mm)
- Weight: 6 oz (170 g)

Make the perfect ice bath using the ValCup™

Watch the Video

Probe Wipes

9150
Box
- 200 individual foil wrapped wipes per pack
- 2" x 2" (51 mm x 51 mm)
- Weight: 8 oz (227 g)

9152
Tub
- 200 Count
- 3.125" x 4.75" (76 mm x 120 mm)
- Weight: 6 oz (170 g)

Infrared Thermometers

	412	462	470	480	481
Temperature Range:	Infrared -76° to 932°F (-60° to 500°C) Thermocouple Instrument -83° to 1999°F (-64° to 1400°C)	-40° to 536°F (-40° to 280°C)	-27° to 428°F (-33° to 220°C)	Infrared -27° to 428°F (-33° to 220°C) Thermocouple Probe -67° to 624°F (-55° to 330°C)	Infrared -40° to 536°F (-40° to 280°C) Thermocouple Probe -40° to 392°F (-40° to 200°C)
Infrared Accuracy:	±4°F (±2°C)	±2°F (1°C)	±3.6°F (±2°C)	±4°F (±2°C)	±2°F (±1°C)
Probe Accuracy:	Thermocouple Jack ±2°F (±1°C)	-	-	Thermocouple Probe ±2°F (±1C°)	RTD Probe ±1°F (0.5°C)
Resolution:	0.1° 1°F above 200°F	0.1° 1°F above 230°F	0.1° 1°Fabove 200°F	0.1° 1°F above 200°F	0.1°
Ambient Operating Range:	32° to 122°F (0° to 50°C)	32° to 120°F (0° to 50°C)	32° to 122°F (0° to 50°C)	32° to 122°F (0° to 50°C)	32° to 122°F (0° to 50°C)
Laser:	Single Dot	Single Dot	None	None	Single Dot
Distance to Spot (D:S):	**12:1**	**6:1**	**1:1**	**1:1**	**3:1**
Emissivity:	0.95 - adjustable from 0.1 to 1.0	0.97 fixed	Preset at 0.95	0.95 - adjustable from 0.1 to 1.0	0.97 Fixed
Storage Temperature:	-4° to 149°F (-20° to 65°C)	-4° to 149°F (-20° to 65°C)	-4° to 149°F (-20° to 65°C)	-4° to 149°F (-20° to 65°C)	-4° to 122°F (-20° to 50°C)
Power:	(2) 1.5V AAA	(1) 9V battery Alkaline	(1) Lithium button cell 3V battery - #CR2032	(1) Lithium button cell 3V battery - #CR2032	(1) 9V battery
Dimensions:	6.9" x 2.8" x 1.5" (175 mm x 72 mm x 38 mm)	7.375" x 2.25" x 1.5" (184 mm x 56 mm x 38 mm)	2.67" x 1.44" x 0.75" (68 mm x 36 mm x 19 mm)	6.125" x 1.68" x 1.625" (155 mm x 41 mm x 22 mm)	6.625" x 1.375" x 2.5" (168 mm x 35 mm x 64 mm)
Battery Life:	180 Hours Typical 140 Hours Minimum	12 Hours	40 Hours Typical 30 Hours Minimum	40 Hours Typical 30 Hours Minimum	100 Hours Typical
Weight:	6 oz (170 g)	5 oz (142 g)	1 oz (28.4 g)	2.5 oz (73 g)	6 oz (170 g)
Regulatory Listings:	CE RoHS	CE RoHS	CE RoHS	CE RoHS	CE NSF RoHS
Warranty:	1 year	1 year	1 year	1 year	1 year

412
Infrared with Laser Sighting & Thermocouple Jack
- LCD display with backlight
- FDA Class II, Single-point laser may be turned on or off
- High and Low alarms
- Measures min, max, average & differential temperatures
- Accepts all Type K Thermocouple probes
- Lock-mode for continuous monitoring up to 60 minutes
- Adjustable emissivity
- Soft carrying case included

462
Slim-Line Infrared Thermometer
Easy to use. Just aim at the object, press the button, and read the surface temperature.
- LCD display with backlight
- Single-point laser
- Auto Shut-off after 7 seconds

481
DualTemp2™ Infrared with Platinum RTD Probe
For surface and internal temperature readings.
- Auto Shut-off after 20 seconds
- Data hold and maximum temperature memory
- HACCP LED indicators
- Storage pouch included

470
Mini Infrared Thermometer
The pocket-sized design is very compact, and includes lanyard to wear around your neck.
- Min / Max / Hold / Lock

480
Dual Temp Infrared & Probe
For surface and internal temperature readings.
- Auto Shut-off after 7 seconds / Probe after 4 mins

Infrared Thermometers

422
Gun-style Infrared with Laser Sighting

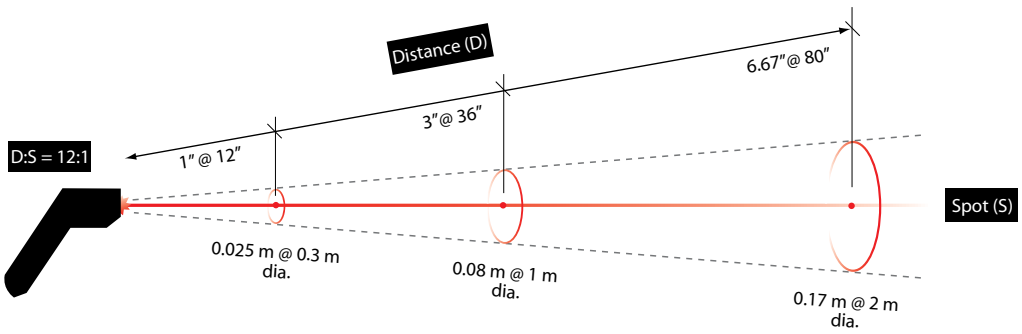
	422	423	424	425
Temperature Range:	-76° to 932°F (-60° to 500°C)	-76° to 1157°F (-60° to 625°C)	-76° to 1600°F (-60° to 900°C)	-76° to 1832°F (-60° to 1000°C)
Accuracy:	±4°F (±2°C)	±4°F (±2°C)	±4°F (±2°C)	±4°F (±2°C)
Resolution:	0.1°	0.1°	0.1°	0.1°
Ambient Operating Range:	32° to 122°F (0° to 50°C)	32° to 122°F (0° to 50°C)	32° to 122°F (0° to 50°C)	32° to 122°F (0° to 50°C)
Laser:	Dual Dot	Dual Dot	Dual Dot	Dual Dot
Distance to Spot (D:S):	**12:1**	**16:1**	**35:1**	**50:1**
Emissivity:	0.95 Fixed	Default 0.95 - adjustable from 0.10 to 1.00	Default 0.95 - adjustable from 0.10 to 1.00	Default 0.95 - adjustable from 0.10 to 1.00
Storage Temperature:	-4° to 149°F (-20° to 65°C) (without battery)	-4° to 149°F (-20° to 65°C) (without battery)	-4° to 149°F (-20° to 65°C) (without battery)	-4° to 149°F (-20° to 65°C) (without battery)
Power:	(2) 1.5V AAA (included)	(2) 1.5V AAA (included)	(2) 1.5V AAA (included)	(2) 1.5V AAA (included)
Dimensions:	1.625" x 5.5" x 7.25" (41 mm x 140 mm x 184 mm)	1.625" x 5.5" x 7.25" (41 mm x 140 mm x 184 mm)	7.75" x 1.875" x 8" (197 mm x 48 mm x 203 mm)	7.75" x 1.875" x 8" (197 mm x 48 mm x 203 mm)
Battery Life:	14 hrs typical / 10 hrs continuous use with laser / backlight on	14 hrs typical / 10 hrs continuous use with laser / backlight on	18 hrs typical / 14 hrs continuous use with laser / backlight on	18 hrs typical / 14 hrs continuous use with laser / backlight on
Weight:	8 oz (227 g)	9 oz (229 g)	1 lb (454 g) w/ stand	1 lb (454 g) w/ stand
Regulatory Listings:	CE RoHS	CE RoHS	CE RoHS	CE RoHS
Warranty:	1 year	1 year	1 year	1 year

423
Gun-style Infrared with Laser Sighting
Accepts Type K Thermocouple probes

424
Gun-style Infrared with Laser Sighting

- Measures min, max, average & differential temps
- Programmable HI / LO alarms
- Built-in, high-intensity LED flashlight
- Magnetic stand
- ABS carrying case

D:S (Distance to Spot Ratio)
The further away from the object, the larger the surface area measured. Optical resolution is expressed as a ratio of the distance to the resolution spot divided by the diameter of the spot.



Refrigerator / Freezer Thermometers

	25HP	330	335	535	2560
Temperature Range:	-20° to 80°F (-29° to 27°C)	-40° to 120°F (-40° to 50°C)	-40° to 80°F (-40° to 25°C)	-20° to 120°F (-30° to 50°C)	-22° to 122°F (-30° to 50°C)
Accuracy:	±2°F (±1°C)	±2°F (±1°C)	±2°F (±1°C)	±5°F (±2°C)	±1°F (±0.5°C)
Housing Material:	Stainless Steel	Food Grade Plastic	Stainless Steel	Plastic	Food Grade Plastic
Dimensions:	2.375" x 1.5" x 3" (60 mm x 38 mm x 76 mm)	0.625" x 0.25" x 4" (16 mm x 6 mm x 102 mm)	4.75" x 0.875" x 1.125" (120 mm x 22 mm x 29 mm)	2" (50.8 mm)	3.56" x 1.25" x 3.5" (90 mm x 32 mm x 89 mm)
Lens Material:	Glass	Food Grade Plastic	Food Grade Crystal Clear Polycarbonate	Plastic	Food Grade Polycarbonate
Weight:	1.5 oz (43 g)	.25 oz (7 g)	1 oz (28 g)	.5 oz (14 g)	1.5 oz (43 g)
Regulatory Listings:	NSF	NSF	NSF	-	CE NSF RoHS
Warranty:	1 Year	1 Year	1 Year	1 Year	Lifetime

330
Vertical Glass Tube Thermometer
- Lightweight design
- Durable, plastic casing
- Non-toxic, spirit-filled glass tube

335
Horizontal Glass Tube Thermometer
- Magnifying lens
- Hangs, stands or permanently mounts

25HP
Refrigerator / Freezer Thermometer
- Includes dry storage range
- Hangs or stands

2560
Digital Refrigerator / Freezer Thermometer
- Guaranteed Accurate for Life!
- Hangs, stands, or mounts with cable ties
- Large, easy to read display
- Anti-microbial additive
- Removable plastic frame

Hot-Holding Thermometers

	24HP	26HP	3210
Temperature Range:	100° to 600°F (50° to 300°C)	100° to 175°F (40° to 80°C)	100° to 600°F (50° to 300°C)
Accuracy:	±25°F (±12.5°C)	±3°F (±1.5°C)	±25°F (±12°C)
Housing Material:	Stainless Steel	Stainless Steel	Aluminum
Dial Diameter:	2" (51 mm)	2" (51 mm)	2.5" (64 mm)
Lens Material:	Glass	Glass	Glass
Weight:	1.5 oz (43 g)	1.5 oz (43 g)	3 oz (85 g)
Regulatory Listings:	NSF	NSF	NSF
Warranty:	1 Year	1 Year	1 Year

24HP
Oven Thermometer
- HACCP zoned dial
- Hangs or stands

3210
Grill Surface Thermometer
- HACCP zoned dial
- Unique side grips

26HP
Hot-holding Cabinet Thermometer
- HACCP Zoned dial
- Hangs or stands

Digital Wall Thermometers

	TRH122M	TRH158	T158	IO70
Temperature Range:	14° to 122°F (-10° to 50°C) 10% to 99% RH	32° to 122°F (0° to 50°C) 25% to 90% RH	(Internal): 32° to 122°F (0° to 50°C) (External): -58° to 158°F (-50° to 70°C)	(Internal): 32° to 122°F (0° to 50°C) (External): -58° to 158°F (-50° to 70°C)
Accuracy:	±2°F (±1°C)	±2°F (±1°C) +5% RH	±2°F (±1°C)	±2°F
Resolution:	0.1°	0.1°	0.1°	0.1°
Display - LCD	1.5" x 0 .5" (38 mm x 13 mm) (dual display)	2.875" x 2.125" (73 mm x 54 mm)	2.875" x 2.125" (73 mm x 54 mm)	1.625" x 1.375" (41 mm x 35 mm)
Power:	(1) 1.5V Battery AAA	(1) 1.5V Battery AAA	(1) 1.5V Battery AAA	(1) 1.5V Battery AAA
Weight:	3 oz (85 g)	4.5 oz (127 g)	5.5 oz (156 g)	3 oz (85 g)
Regulatory Listings:	CE RoHS	CE RoHS	CE RoHS	-
Warranty:	1 Year	1 Year	1 Year	1 Year

TRH158
Digital Temperature / Humidity Wall Thermometer
- Built-in sensor
- F / C selectable .

TRH122M
Mini Temperature / Humidity Dual-Display Wall Thermometer
- Min / Max memory and switchable °F / °C

IO70
Digital Indoor / Outdoor Wall Thermometer
- Large LCD
- Built-in sensor
- 10' cable for remote sensor

T158
Digital Wall Thermometer with Remote Sensor
- Wall or desk mountable
- Remote sensor
- °F / °C selectable
- 10' cable

Data Loggers

GL100
Water-resistant, Mini Data Loggers
2" x 2-5/8" (51 x 67 mm) Data Logger Tag monitors both time and temperature. Stores up to 2,048 records at specific intervals from 1 minute to 4 hours. Surface-mount bracket with adhesive backing and stainless steel bead chain for hanging from racks or hooks.
- Temperature Range: -40° to 185°F (-40° to 85°C)
- Temperature Accuracy: ±2F° from -4° to 158°F (±1C° from -20° to 70°C)
- Clock Accuracy: ±2 minutes per month
- PC Requirements: Windows 95 or higher (minimum of 10MB of hard-drive space) and CD-Rom
- 1 year warranty

Not compatible with Macintosh computers.

GL100
- Two (2) mini data loggers
- Two (2) mounts
- Reader and software

Wall Thermometers

Wall Thermometers / Hygrometers allow easy monitoring of temperatures. Specialty HACCP color-zoned dial units were developed for use in critical food-related applications. These thermometers have large numbers and oversized dials for easy viewing.

212 Series

250 / 255 Series

	212-150	212-158	212-159	250	255-06	255-14	268
Temperature Range:	-40° to 120°F (-40° to 50°C) 0 to 100% RH	10° to 80°F 0 to 100% RH	-10° to 80°F 0 to 100% RH	-40° to 120°F (-40° to 50°C)	-60° to 120°F (-50° to 50°C)	-10° to 80°F	-40° to 120°F (-50° to 50°C)
Accuracy:	±3°F (±1.5°C)	±3°F	±3°F	±2°F (1°C)	±2°F (1°C)	±2°F (1°C)	±2°F (1°C)
Resolution:	2°F increments	1°F increments	2°F increments	±2°F (1°C)	2°F increments	2°F increments	2°F increments
Dial Diameter:	11.5" (291 mm)	11.5" (291 mm)	11.5" (291 mm)	4.5" (114 mm)	6" (152 mm)	6" (152 mm)	-
Weight:	1 lb (454 g)	1 lb (454 g)	1 lb (454 g)	4 oz (113 g)	3 oz (85 g)	3 oz (85 g)	2 oz (57 g)
Warranty:	1 year	1 year	1 year	1 year	1 year	1 year	1 year

212-159
12" Freezer & Cooler Thermometer / Hygrometer (°F)
- HACCP colored-zone dial

268
Wall Thermometer
- Non-toxic, spirit-filled glass tube
- Suction cups included for window mounting
- 1 year warranty

212-150
12" Wall Thermometer / Hygrometer

212-158
12" Prep & Dry Storage Thermometer / Hygrometer (°F)
- HACCP colored-zone dial

250
5" Wall / Storage Thermometer

255-14
6" Refrigerator / Freezer Thermometer

255-06
6" Wall / Storage Thermometer

Timers

	FT24	TC6	TFS4	TM60	TS100	TW3
Unit Range:	23:59:59 Hours	23:59:59 Hours	99 Hours 59 Minutes	0 to 60 Minutes	99 Minutes 59 seconds	99 Minutes 59 seconds
Resolution:	1 second	1 second	Hours / Minutes Minutes / Seconds	1 minute	1 second	1 second
Power Source:	(4) C cell	1.5 v AAA	(4) 1.5v "C" AC Adaptor (optional)	Wind up	1.5v LR44	1.5 v AAA
Memory / Recall:	Yes	Yes	Yes	No	Yes	Yes
Modes:	-	Counts up / down	Counts up / down	-	-	-
Alarm Level (Decibel):	90 decibels	85 decibels	90 decibels	70 decibels	70 decibels	70 decibels
Housing:	ABS Plastic	White plastic	ABS plastic	Stainless steel	ABS plastic	ABS plastic
LCD Dimensions:	0.875" x 2.25" (22 mm x 54 mm)	0.625" x 1.625" (16 mm x 41 mm)	3" x 3" (76 mm x 76 mm)	-	0.375" x 0.875" (10 mm x 22 mm)	1.5" x 2.5" (76 mm x 64 mm)
Weight:	1 lb 3 oz (539 g)	2 oz (57 g)	1 lb 6oz (523 g)	4.3 oz (122 g)	1 oz (28 g)	3 oz (85 g)
Regulatory Listings:	CE	CE RoHS	CE RoHS	-	CE RoHS	CE RoHS
Warranty:	2 Years	1 Year	1 Year	1 Year	1 Year	1 Year

TC6
Digital Timer / Clock / Stopwatch
- Built-in memory
- Splash proof case
- Wire hang, easel stand, clip-on or magnet-mount
- Power: 1.5V, AAA battery included

FT24
Large Single-Station Digital Timer
- Red light flashes when alarm sounds
- Built-in memory for repeat cycle timing
- Power: (4) 1.5V, C size batteries included

TFS4
Large Multi-Station Digital Timer
- Switchable: Hours / Minutes or Minutes / Seconds
- Built-in Memory
- Power: (4) 1.5V, C size batteries included
- Built-in AC adapter jack

#9374
AC adapter for TFS4 (optional)

TS100
Digital Timer / Stopwatch
- 99 minute, 59 second counter / timer
- Recall feature
- 18" nylon neck cord
- Power: 1.5V, G13A micro-cell battery included

TM60
Long-Ring 60 Minute Timer
- Non-skid feet for easy, one-handed operation
- Spring-wound mechanism
- Sturdy, metal case
- Stainless steel

TW3
Large Digit Multi-Function Timer
- Recall feature
- Water resistant
- Large LCD: 1.5" x 2.5" (38 mm x 63 mm)
- Power: 1.5V, AAA battery included
- Wire hang, easel stand, belt-clip or magnet-mount

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